

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) Process for producing a nano-porous polymeric material, characterized in that the process comprises the steps of:
 - a. incorporating a chemical blowing agent in the form of nano-particles in the polymeric material,
 - b. decomposing the chemical blowing agent in its gaseous reaction products.
2. (original) Process according to claim 1, comprising the steps of:
 - a. incorporating the chemical blowing agent in the polymeric material
 - b. processing the so obtained polymeric material,
 - c. at least partly polymerising the polymeric material, steps a, b and c are carried out at a temperature below the decomposition temperature of the chemical blowing agent,
 - d. heating the at least partly polymerised polymeric material to a temperature above the decomposition temperature of the chemical blowing agent.
3. (original) Process according to claim 2, characterized in that the composition is shaped in step b) into a coating.
4. (currently amended) Process according to claim 1 or 3, characterized in that the chemical blowing agent has a decomposition temperature below 300 °C.
5. (currently amended) Process according to ~~any one of claims 1-4~~ claim 1, characterized in that azodicarbonamide is used as the chemical blowing agent.
6. (currently amended) Process according to ~~any one of claims 2-5~~ claim 2, characterized in that the polymeric material is cured by a UV-curing system.

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7. (currently amended) Process according to ~~any one of claims 1-6~~ claim 1, characterized in that a biodegradable polymer is used.

8. (currently amended) Polymer composition comprising nanoparticles of a chemical blowing agent as used in the process according to ~~any one of claims 1-7~~ claim 1.

9. (currently amended) of a chemical blowing agent as used in the process according to ~~any one of claims 1-7~~ claim 1.

10. (original) Nano-porous polymeric material comprising a polymer having a melting temperature and/or a decomposition temperature below 450°C.

11. (currently amended) Use of the process according to ~~any one of claims 1-7~~ claim 1 for the production of anti-reflective coatings, a bio-degradable scaffold for tissue engineering, an isolation coating, a dielectric interlayer, a membrane, a nano-reactor.